FlyBy Math™ Alignment
Alabama Course of Study: Mathematics
Adopted 2003

Number and Operations

Students will:	***FlyBy Math*™ Activities**
1. Use various strategies and operations to solve problems involving real numbers. • Applying proportional reasoning	--Apply mathematics to solving distance, rate, and time problems for aircraft conflict scenarios.

Algebra

Students will:	***FlyBy Math*™ Activities**
4. Graph linear relations by plotting points or by using the slope and y-intercept. • Determining slopes and y-intercepts of lines • Calculating the slope of a linear relation given as a table or graph	--Plot points on a schematic of a jet route, on a vertical line graph, and on a Cartesian coordinate system to describe the motion of two airplanes. --Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system. --Interpret the slope of a line in the context of a distance-rate-time problem.
5. Solve problems involving linear functions. • Identifying functions from information in tables, sets of ordered pairs, equations, graphs, and mappings. • Determining the rule that defines a function. • Classifying relations as linear or nonlinear by examining tables, graphs, or simple equations.	--Represent distance, speed, and time relationships for constant speed cases using linear equations and a Cartesian coordinate system.

Data Analysis and Probability

Students will:	***FlyBy Math*™ Activities**
13. Interpret data from populations, using given and collected data. • Representing the data with the most appropriate graph, including box-and-whisker plot, circle graph, and scatterplot.	--Conduct simulation and measurement for several aircraft conflict problems. --Represent distance, rate, and time data using tables, line plots, bar graphs, and line graphs. --Choose among tables, bar graphs, line graphs, a Cartesian coordinate system, and equations to model aircraft conflicts and predict outcomes.